## W Claim:

 A system for treating plasma comprising tubing adapted to be coupled to a plasma source,

a filter coupled to the tubing to separate cellular matter from the plasma conveyed from the source,

a transfer container coupled to the tubing to receive cellular matter-reduced plasma from the filter,

a source of photoactive material to be mixed with the plasma, and

the tubing including a path to vent air from the transfer container in a path that bypasses the filter.

- 2. A system according to claim 1
  wherein the source of photoactive material
  is contained within the transfer container.
- 3. A system according to claim 1
  wherein the transfer container is made, at
  least in part, of material that is essentially
  transparent to light that activates the photoactive
  material.
- 4. A system according to claim 1 and further including an overwrap enveloping the transfer container and including light filtering material that absorbs light that activates the photoactive material.
- 5. A system according to claim 4 wherein the overwrap includes a vapor barrier material.
- 6. A system according to claim 4 wherein the photoactive material comprises methylene blue, and

wherein the light filtering material

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5 includes a blue material on the overwrap.

7. A system according to claim 6
wherein the blue material includes
phtalocyanine pigments.

- 8. A system according to claim 1 wherein the transfer container is made of material that accommodates plasma storage.
- 9. A system according to claim 1
  wherein the source of photoactive material
  comprises an auxiliary container separate from the
  transfer container.
- 10. A system according to claim 9
  wherein the auxiliary container is made, at
  least in part, of light filtering material that
  absorbs light that activates the photoactive material.
- 11. A system according to claim 10
  wherein the photoactive material comprises
  methylene blue, and
  wherein the light filtering material

wherein the light filtering material includes a blue material on the auxiliary container.

- 12. A system according to claim 11 wherein the blue material includes phtalocyanine pigments.
- 13. A/system according to claim 1
  wherein the path vents air from the transfer
  container to the plasma source.
- 14. A system according to claim 1
  wherein the path includes a one way valve
  that blocks fluid flow in a direction toward the
  transfer container while permitting fluid flow in a
  direction away from the transfer container.
- /15. A system according to claim 1 and further including an air reservoir, and wherein the path communicates with the air reservoir.

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16. A system according to claim/1 wherein the photoactive material includes methylene blue.

17. A system according to claim 1 wherein the filter removes leukocytes.

18. A system for treating/plasma comprising tubing adapted to be coupled to a plasma source,

a first filtration media coupled to the tubing to separate a first species of cellular matter from the plasma conveyed from the source,

a second filtration media coupled to the tubing in series with the first filtration media to separate a second species of cellular matter from the plasma conveyed from the source, which second species of cellular matter is essentially not removed by the first filtration media,

a transfer container coupled to the tubing to receive cellular matter reduced plasma from the first and second filtration media, and

a source of photoactive material to be mixed with the plasma.

19. A system according to claim 18 wherein the tubing includes a path to vent air from the transfer container in a path that bypasses the first and second filtration media.

20. A system according to claim 18 wherein the source of photoactive material is contained within the transfer container.

21/. A system according to claim 18
wherein the transfer container is made, at
least in part, of material that is essentially
transparent to light that activates the photoactive
material.

22. A system according to claim 18

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and further including an overwrap enveloping the transfer container and including light filtering material that absorbs light that activates the photoactive material.

23. A system according to claim 22 wherein the overwrap includes a vapor barrier material.

24. A system according to claim 22
wherein the photoactive material comprises
methylene blue, and

wherein the light filtering material includes a blue material on the overwrap.

25. A system according to claim 24 wherein the blue material includes phtalocyanine pigments.

wherein the transfer container is made of material that accommodates plasma storage.

27. A system according to claim 18

wherein the source of photoactive material comprises an auxiliary container separate from the transfer container.

28. A system according to claim 27
wherein the auxiliary container is made, at
least in part, of light filtering material that
absorbs light that activates the photoactive material.

29. A system according to claim 28 wherein the photoactive material comprises methylene blue, and

wherein the light filtering material includes a plue material on the auxiliary container.

/0. A system according to claim 29
wherein the blue material includes phtalocyanine pigments.

31. A system according to claim 18

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wherein the path vents air from the transfer container to the plasma source.

32. A system according to claim 18 wherein the path includes a one way valve that blocks fluid flow in a direction toward the transfer container while permitting fluid flow in a direction away from the transfer container.

33. A system according to claim 18 and further including an air reservoir, and wherein the path communicates with the air reservoir.

34. A system according to claim 18 wherein the photoactive material includes methylene blue.

35. A system according to claim 18 wherein the one of the first and second filtration media removes leukocytes.

36 A system according to claim 18 wherein the one of the first and second filtration media removes platelets.

37. A system according to claim 18
wherein the first filtration media removes
leukogytes, and

wherein the second filtration media removes platelets.

## 38. A kit comprising

tubing adapted to be coupled to a blood constituent source to convey blood constituent,

a transfer container coupled to the tubing,

a source of photoactive material to be mixed with the blood constituent, and

an overwrap enveloping at least a portion of the kit and including light filtering material that absorbs light that activates the photoactive material.

39. A kit according to claim 38

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wh rein the photoactive material includes methylene blue.

- 40. A kit according to claim 39
  wherein the light filtering material includes a blue material.
- 41. A kit according to claim 40 wherein the blue material includes phtalocyanine pigments.
- 42. A kit according to claim 38 wherein the photoactive material includes psoralen.
- 43. A kit according to claim 42 wherein the light filtering material includes a red material.
- tuking adapted to be coupled to a plasma source,
- a filter coupled to the tubing to remove cellular matter from the plasma,
- a transfer container coupled to the tubing to receive cellular matter-reduced plasma from the filter,
- a source of photoactive material to be mixed with the plasma, and

an overwrap enveloping at least a portion of the kit and including light filtering material that absorbs light that activates the photoactive material.

- 45. A kit according to claim 44 wherein the photoactive material includes methylene blue.
- 46. A kit according to claim 45 wherein the light filtering material includes a blue material.
  - 47. A kit according to claim 46 wherein the blue material includes

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phtalocyanin pigments.

48. A kit according to claim 44

and further including instructions for using the kit following removal of the overwrap in accordance with a method comprising the steps of

conveying plasma through the tubing from the source through the filter to separate cellular matter including leukocytes from the plasma, conveying cellular matter-reduced plasma through the tubing from the filter to the transfer container,

the plasma, and the photoactivated material with

exposing leukocyte-reduced plasma mixed with the photoactive material to light that activates the photoactive material.

49. A kit comprising

tubing adapted to be coupled to a plasma source to convey plasma,

a filter coupled to the tubing to separate cellular matter from plasma conveyed from the source,

a transfer container having a chamber that holds a photoactive material, the chamber communicating with the tubing to receive cellular matter-reduced plasma from the filter, the chamber having a wall made, at least in part, from material that is essentially transparent to light that activates the photoactive material, and

an overwrap enveloping at least a portion of the kit and including material that absorbs light that activates the photoactive material.

50. A kit according to claim 49
wherein the photoactive material includes
methylene blue.

51. A kit according to claim 50

wherein the light filtering material includes a blue material.

52. A kit according to claim 51

wherein the blue material includes phtalocyanine pigments.

53. A kit according to claim 49

and further including instructions for using the kit following removal of the overwrap in accordance with a method comprising the steps of

conveying plasma through the tubing from the source through the filter to separate cellular matter including leukocytes from the plasma,

conveying cellular matter-reduced plasma through the tubing from the filter to the transfer container chamber,

mixing the photoactivated material with leukocyte-reduced plasma within in the transfer container chamber, and

exposing the transfer container chamber to light that activates the photoactive material mixed within the chamber with the leukocyte-reduced plasma.

54. A kit according to claim 53

wherein the instructions include the step of storing the plasma in the transfer container chamber after the exposing step.

55. A kit comprising

tubing adapted to be coupled to a plasma source to convey plasma,

a filter coupled to the tubing to separate cellular matter from plasma conveyed from the blood source,

a transfer container coupled to the tubing to receive cellular matter-reduced plasma from the filter,

a source of liquid photoactive material to

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be mixed with the plasma, and

an overwrap enveloping at least a portion of the kit and including material that both absorbs light that activates the photoactive material and reduces liquid vapor loss from the kit.

56. A kit according to claim 55 wherein the material of the overwrap includes an oriented polymer.

57. A kit according to claim 56 wherein the oriented polymer includes polypropylene.

58. A kit according to claim 55 wherein the photoactive material includes methylene blue.

59. A kit according to claim 58
wherein the light filtering material
includes a blue material.

wherein the blue material includes phtalogyanine pigments.

61. A kit according to claim 55
and further including instructions for using
the kit following removal of the overwrap in
accordance with a method comprising the steps of

conveying plasma through the tubing from the source through the filter to separate cellular matter including leukocytes from the plasma, conveying cellular matter-reduced plasma through the tubing from the filter to the transfer container,

mixing the photoactivated material with the plasma, and

exposing cellular matter-reduced plasma mixed with the photoactive material to light that activates the photoactive material.

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62. A kit according to claim 38 or 44 or 49

or 55

wherein the overwrap envelops the entire

kit.

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63. A method for treating plasma carrying contaminants and at least two species of cellular matter capable of entraining contaminants, the method comprising the steps of

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separating a first species of cellular matter by filtration through a first filter media, thereby removing contaminants entrained within the first species of cellular matter.

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separating a second species of cellular matter by filtration through a second filter media, thereby removing contaminants entrained within the second species of cellular matter,

adding to the plasma a photoactive material,

and

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emitting radiation at a selected wavelength into the plasma to activate the photoactive material and thereby eradicate the contaminant that is free of entrainment by cellular matter.

64. A method for treating plasma comprising the steps of

separating from the plasma leukocytes by filtration through a first filter media,

separating from the plasma platelets by filtration through a second filter media,

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adding to the plasma a photoactive material,

and

emitting radiation at a selected wavelength into the plasma to activate the photoactive material.

65. A method for treating a plasma carrying contaminants and cellular matter capable of entraining

contaminants, the method comprising the steps of

conveying plasma through first / path а through a filter that separates cellular matter from the plasma, thereby removing contaminants thrained within the cellular matter,

conveying the plasma from the fifter through a second path that includes an attached transfer container,

mixing within the transfer container the plasma with a photoactive material/to form a plasma mixture,

conveying /a portion /of / the plasma mixture from the transfer container through a flush path that the second path . to thereby contaminants in the second path to the photoactive material,

severing the second path to separate the transfer container from the filter, the transfer container, after\severance from the filter, carrying a remnant of the second path, and

emitting/ radiation into the transfer container at a selected wavelength to activate the photoactive material in the plasma mixture and thereby eradicate the contaminant that is free of entrainment by cellular matter.

> 46/ A method according to claim 66 wherein the flush path by passes the filter.

> \$7. A method according to claim 66 and further including the step of venting

air from the transfer container through the flush path.

> A method according to claim 67 68. wherein the flush path by passes the filter.

> 69. A method according to claim 66 and further including the step of storing

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the plasma mixture in the transfer container after the radiation emitting step

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